

Title (en)
Quick-cooking oven

Title (de)
Schnellkochofen

Title (fr)
Four à cuisson rapide

Publication
EP 0809418 B1 20011219 (EN)

Application
EP 97110554 A 19920915

Priority
• EP 92920326 A 19920915
• US 76128591 A 19910917

Abstract (en)
[origin: EP0809418A1] A hybrid oven (10) for cooking by both hot air impingement and microwave cooking includes a housing (14) defining a cooking chamber (16) adapted to receive a food product (12) for cooking, a hot air plenum (18) configured and dimensioned to hold a large volume of air relative to the cooking chamber (16), and a conduit (24) for selectively providing gaseous communication therebetween. Associated with the plenum (18) are a thermal reservoir (26) of high specific heat and high heat capacity relative to the air disposed in the plenum (18) and an actuable heater (28) for maintaining the thermal reservoir (26) at a high temperature. Controls (250) are provided for actuating a heater (28) to preheat the thermal reservoir (26) and the ambient air in the plenum (18) prior to actuation of a blower (40), for actuating a magnetron (100), and for actuating the blower (40) at a predetermined time relative to actuation of the magnetron (100), whereby actuation of the blower (40) causes the impingement of preheated air from the plenum (18) through the conduit (24) and onto the product (12) in the cooking chamber (16). <IMAGE>

IPC 1-7
H05B 6/68; **F22B 1/28**; **H05B 6/80**

IPC 8 full level
F24C 7/00 (2006.01); **F24C 1/00** (2006.01); **F24C 1/02** (2006.01); **H05B 6/80** (2006.01); **H05B 11/00** (2006.01)

CPC (source: EP US)
H05B 6/6473 (2013.01 - EP US); **H05B 6/808** (2013.01 - EP US)

Cited by
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WO 9306699 A1 19930401; AT E167349 T1 19980615; AT E211349 T1 20020115; AU 2014595 A 19950720; AU 2655892 A 19930427; AU 672553 B2 19961003; BR 9206508 A 19950620; CA 2119239 A1 19930401; CA 2119239 C 20030128; DE 69225900 D1 19980716; DE 69225900 T2 19981022; DE 69232320 D1 20020131; EP 0604547 A1 19940706; EP 0604547 A4 19960124; EP 0604547 B1 19980610; EP 0809418 A1 19971126; EP 0809418 B1 20011219; ES 2119820 T3 19981016; JP 3502094 B2 20040302; JP H06510849 A 19941201; MX 9205288 A 19930301; RU 2100707 C1 19971227; US 5254823 A 19931019

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